

Q1 indicate that no activity has occurred for a predetermined period of time transparent to said at least one power-unaware application.

Q2 16. (Amended) The computer system defined in Claim 11 wherein the memory stores data structures indicating enabled local devices being monitored by the virtual device driver.

17. (Amended) The computer system defined in Claim 11 wherein the memory stores data structures indicating events being monitored by the virtual device driver.

19. (Amended) The computer system defined in Claim 11 wherein the memory stores data structures indicating activity level of local devices to the virtual device driver.

20. (Amended) The computer system defined in Claim 11 wherein the memory stores data structures indicating power management states into which the virtual device driver may place the computer system.

Q3 [Please add the following claims:)

21. (New) A computer system comprising:
at least one bus;
a memory coupled to said at least one bus;
a device coupled to said at least one bus;
a processor coupled to said at least one bus, wherein the processor is configured to execute a virtual device driver to control placement of said device into a reduced power consumption state.

22. (New) The computer system defined in Claim 21 wherein the virtual device driver performs idle detection for the device.

23. (New) The computer system defined in Claim 21 wherein the virtual device driver performs idle detection for the device using at least one event timer indicating the activity level of the device.

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24. (New) The computer system defined in Claim 23 wherein the virtual device driver places the device in a reduced power consumption state when said at least one events timer indicates that no activity has occurred for a predetermined period of time.

[25. (New) The computer system defined in Claim 21 wherein the virtual device driver comprises a VxD trap handler to perform idle detection

25. (New) The computer system defined in Claim 21 wherein the processor runs at least one power-unaware application and the virtual device driver places the device in the reduced power consumption state transparent to said at least one power-unaware application.

26. (New) The computer system defined in Claim 21 wherein the memory stores data structures indicating enabled local devices being monitored by the virtual device driver, events being monitored by the virtual device driver, I/O address ranges for local devices, and activity level of local devices to the virtual device driver.

27. (New) The computer system defined in Claim 21 wherein the virtual device driver comprises a VxD trap handler to perform idle detection.

28. (New) The computer system defined in Claim 21 wherein the device comprises an I/O device.

b 29. (New) A method for controlling an input/output (I/O) device, said method comprising the steps of:

executing a virtual device driver;

monitoring activity of the I/O device;

detecting the I/O device being inactive for a predetermined period of time; and

the virtual device driver placing the I/O device in a reduced power consumption state in response to the I/O device being detected as inactive.

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30. (New) The method defined in Claim 29 further comprising the step of initializing, at boot-up time, a plurality of data structures associated with the virtual device driver.

31. (New) The method defined in Claim 29 wherein the step of monitoring comprises the virtual device driver monitoring activity of the I/O device at the occurrence of a system timer interrupt.

32. (New) The method defined in Claim 29 further comprising the step of varying the predetermined period of time.

33. (New) The method defined in Claim 32 wherein the predetermined period of time is varied based on desired power savings.

34. (New) The method defined in Claim 29 further comprising the step of the virtual device driver adjusting an events timer according to activity of the device.

35. (New) The method defined in Claim 29 further comprising the steps of:

a configuration manager notifying the virtual device driver of system resources being remapped; and

the virtual device driver examining its data structures to adapt itself to the remapped system resources.

REMARKS

Applicant respectfully requests reconsideration of this application as amended. Claims 1-20 remain in the application. Claims 11, 16, 17, 19 and 20 have been amended. Claims 21-35 have been added. No claims have been canceled.

The Examiner indicated that Claims 1-10 are in condition for allowance. Therefore, the following comments concern only Claims 11-20 and the added claims.

The Examiner objected to the drawings stating that they did not include certain reference signs mentioned in the description. Applicant has included